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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/737,042	12/15/2003	Lester F. Ludwig	2152-3033	4753	
35884 7590 02062000 LEE, HONG, DEGERMAN, KANG & WAIMEY 660 S. FIGUEROA STRIET Suite 2300 LOS ANGELES. CA 90017			EXAM	EXAMINER	
			WARREN, DAVID S		
			ART UNIT	PAPER NUMBER	
			2837		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/737.042 LUDWIG, LESTER F. Office Action Summary Art Unit Examiner DAVID S. WARREN 2837 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 22-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 22-34 and 38-44 is/are rejected. 7) Claim(s) 35-37 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 13 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 22 - 33, and 39 - 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stratton (6538185) in view of Yamaha MFC10 MIDI Foot Controller (hereinafter, "MFC10"; the article citing the MFC10 is undated, for the Applicant's convenience, the Examiner has cited PGPub 2004/0060422 which establishes that the MPC10, discussed in paragraph [0057], existed prior to May 9, 2002). Regarding claims 22 and 42, Stratton discloses the use of a plurality of individual foot controller modules (col. 1, lines 46-49), a mounting frame comprising a plurality of predetermined mounting locations (i.e., both the "tiers" and elements 41 are "predetermined locations") structured to simultaneously secure the plurality of individual foot controller modules in a reconfigurable mounting arrangement (col. 1, lines 53-56, "semi-permanent" implies that the mountings can be reconfigured), wherein each foot controller module is positionable e within various mounting locations of the predetermined mounting locations (see paragraph bridging cols. 3 and 4), and wherein each mounting location is structured to define a separate aperture sized to receive an associated individual foot controller

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module (see paragraph bridging cols. 3 and 4). Stratton does not disclose the use of modules that generate non-audio control signals. Nor does Stratton disclose the use of a control interface to transmit outgoing MIDI control signals t an external device. Nor does Stratton disclose the use of outgoing MIDI control signals are generated in response to one or more of the non-audio control signals generated by the foot controller modules. MFC10 discloses a plurality of individual foot controller modules (the Examiner notes that the cited article does not contain a drawing or photo, a cursory search on the Internet will yield several photos), i.e., foot switches, that generate nonaudio signals (the switches make, break, or change connections, e.g., "on" or "off" and are non-audio control signals), a control interface to transmit outgoing MIDI signals to an external system (paragraph titled "Function Mode"), wherein the outgoing MIDI is generated in response to the foot switch (i.e., the non-audio control signal). It would have been obvious to one of ordinary skill in the art to modify Stratton with the MPC10 disclosure to obtain a modular foot controller for transmitting MIDI control signals. The motivation for making this modification is that many MIDI instruments require both hands to play (thus, foot pedals are necessary) and allow many controllable features (e.g., program change, velocity, etc.). Therefore, the modular MIDI foot controller would allow a user to upgrade to more controllability by adding more modules. Regarding claim 23. Stratton discloses different locations having different sizes (col. 3. lines 5-18). Regarding claim 24, Stratton appears to show uniformly spaced mounting holes (unnumbered, fig. 1 – seen as small black dots on lower and upper portions of each panel. Regarding claims 25 and 26, the exact size of each panel is deemed to be an obvious

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matter of engineering design choice (wouldn't the modules and MIDI operate regardless of dimension?). Regarding claim 27. Stratton discloses that the first and second tier may be combined to accommodate larger or smaller modules - this is deemed to be synonymous with hierarchical. Regarding claim 28, see the paragraph bridging cols. 3 and 4. i.e., where the tiers are sized to accommodated larger or smaller pedals. Regarding claims 29 and 43, Stratton discloses the use of a distributed power supply (see Stratton's claim 5). Regarding claim 30, MPC10 discloses foot switches (see paragraph titled "Markings on the Foot Switches"). Regarding claim 31, Stratton discloses pedals. Regarding claim 32, Official Notice is taken that most foot pedals use plural adjustable parameters (e.g., overdrive, tone, volume, etc.). Regarding claims 33 and 44. Official Notice is taken that many pedals use tactile pads (e.g., volume pedals have a treadle that can be felt, also wah-wah pedals). Regarding claim 39, the pedals of Stratton, and the foot switches of MPC10 both respond to impacts from the foot. Regarding claim 40. Official Notice is taken that organ-style MIDI controllers are extremely well-known (e.g., the Roland PK-7 designed for the Roland VK-77, circa 1999). Regarding claim 41, MPC10 shows a MIDI out connection connected to the mounting frame (i.e., to accommodate a MIDI connector).

3. Claim 34 rejected under 35 U.S.C. 103(a) as being unpatentable over Stratton in view of MPC10 (both discussed supra) and in further view of Blish(7,372,453). The teachings of Stratton and MPC10 have been discussed supra. Neither Stratton nor MPC10 disclose the use of a foot operated null/contact touchpad. Blish discloses the use of a foot controlled touchpad (figs. 2-6). It would have been obvious to one of

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ordinary skill in the art to combine the teachings of Stratton, MPC10, and Blish to obtain a modular foot controller for transmitting MIDI. The motivation for making this combination would be to allow a user to make foot controlled (i.e., hands-free control) MIDI selections via a computer screen (e.g., by controlling a mouse cursor to select MIDI output levels).

4. Claim 38 rejected under 35 U.S.C. 103(a) as being unpatentable over Stratton in view of MPC10 (both discussed supra) and in further view of Gillaspy (5,506,371). The teachings of Stratton and MPC10 have been discussed supra. Neither Stratton nor MPC10 disclose the use of a foot operated strum pad. Gillaspy discloses a foot operated strum pad (col. 4, lines 3-5). It would have been obvious to include a foot operated strum pad in the teachings of Stratton and MPC10. The motivation for making this combination would be to provide further hands-free control.

Allowable Subject Matter

5. Claims 35 - 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not disclose foot controller modules having a top side for operating a tactile control pad and having pressure or impact sensors located on the bottom side.

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Response to Arguments

6. Applicant's arguments filed November 14, 2008 have been fully considered but they are not persuasive. Regarding claims 22 and 42, the Applicant argues that "an aperture is not the same as a panel." An aperture is defined as "an opening or open space" (see Merriam-Webster Online: http://www.merriamwebster.com/dictionary/aperture) The lower right panel shown in Stratton's fig. 1 appears to provide both an opening and open space (within the confines of adjacent housings). Regarding claim 24, the Examiner maintains that the screws secure the panel, the panel secures the modules: therefore, the screws indirectly secure the modules. Regarding claim 33, tactile is defined as "perceptible by touch" certainly the foot controllers of Stratton are "perceptible by touch" (see Merriam-Webster Online: http://www.merriam-webster.com/dictionary/tactile). Regarding claim 37, the Examiner concurs with the Applicant: this claim will be allowed if incorporated into an independent claim including all intermediate claims. Regarding claim 39, impact is defined as "to strike forcefully" (Merriam-Webster Online http://www.merriamwebster.com/dictionary/impact), certainly the prior art discloses foot-controllers that detect when a controller is struck forcefully.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID S. WARREN whose telephone number is (571)272-2076. The examiner can normally be reached on M-F, 9:30 A.M. to 6:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on 571-272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David S. Warren/ Primary Examiner, Art Unit 2837